

Title (en)
FERRIC ARSENATE POWDER

Title (de)
EISEN(III)-ARSENAT-PULVER

Title (fr)
POUDRE D'ARSÉNIATE FERRIQUE

Publication
EP 2192089 A4 20110209 (EN)

Application
EP 08792799 A 20080822

Priority
• JP 2008065474 W 20080822
• JP 2007218855 A 20070824

Abstract (en)
[origin: EP2192089A1] There is provided an iron arsenate powder which is produced from an arsenic containing solution and wherein the concentration of arsenic eluted or released from the powder is very low. The iron arsenate powder is a powder of dihydrate of iron arsenate, which has a crystal structure of rhombic system and which has lattice constants of $a = 0.8950$ to 0.8956 nm, $b = 1.0321$ to 1.0326 nm and $c = 1.0042$ to 1.0050 nm at room temperatures and atmospheric pressure. The iron arsenate powder can be produced by a method comprising the steps of: adding ferrous ions to an arsenic containing solution to cause the molar ratio (Fe/As) of iron to arsenic in the solution to be not lower than 1; adding an oxidizing agent to the solution; heating the solution to a temperature of not lower than 70°C while stirring the solution, to allow a reaction; and carrying out a solid-liquid separation to wash the obtained solid part.

IPC 8 full level
C01G 49/00 (2006.01); **C01G 28/00** (2006.01); **C02F 1/62** (2006.01)

CPC (source: EP US)
C01G 28/02 (2013.01 - EP US); **C01G 49/00** (2013.01 - EP US); **C01G 49/0018** (2013.01 - EP US); **C01G 49/14** (2013.01 - EP US); **C02F 1/5236** (2013.01 - EP US); **C01P 2002/77** (2013.01 - EP US); **C01P 2004/61** (2013.01 - EP US); **C01P 2006/12** (2013.01 - EP US); **C02F 2101/103** (2013.01 - EP US); **C02F 2103/10** (2013.01 - EP US)

Citation (search report)
• [A] E. KRAUSE, V.A. ETTEL: "Solubilities and Stabilities of Ferric Arsenate Compounds", HYDROMETALLURGY, vol. 22, 1989, pages 311 - 337, XP002615158
• See references of WO 2009028636A1

Cited by
CN110980899A

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